

CLAIMS

1. A liquid delivery device, comprising:
 - a flow channel for flowing a liquid,
 - at least two pressure-generating means for generating pressures provided in the flow channel, and
 - 5 a variable member placed between the pressure-generating means and capable of transforming between a first stable state and a second stable state by a generated pressure;
- 10 the device serving to select a branch of the flow channel by transforming the variable member into the first stable state or the second stable state.
2. The liquid delivery device according to claim 1, wherein the variable member is comprised of a flexible resin film.
- 15 3. The liquid delivery device according to claim 2, wherein the variable member is comprised of plural flexible resin films linked in tern.
- 20 4. The liquid delivery device according to claim 1, wherein the variable member is comprised of an arch-shaped elastic body, and expandable elastic bodies placed on both ends of the arch-shaped elastic body.

5. The liquid delivery device according to
claim 1, wherein the device comprises further a
magnetic field-generating means for generating a
magnetic field, and the variable member has a means
5 for promoting transformation between the first stable
state and the second stable state by the generated
magnetic field.

6. The liquid delivery device according to
10 claim 1, wherein the flow channel is comprised of a
first flow channel branch and a second flow channel
branch provided with the pressure generating means,
and a third flow channel branch is connected to the
first flow channel branch and the second flow channel
15 branch, and either the first flow path branch or the
second flow channel branch is closed by the variable
member.

7. The liquid delivery device according to
20 claim 1, wherein the device comprises further a waste
liquid reservoir for receiving a waste liquid from
the flow channel, and the waste liquid is introduced
into the waste liquid reservoir by selecting the
stable state of the variable member.

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8. The liquid delivery device according to
claim 7, wherein the device comprises further an

analysis column for analyzing the liquid, and a pressurizing liquid terminal for introducing the liquid into the analysis column, and the liquid is introduced either into the waste liquid reservoir or
5 into the analysis column by selecting the stable state of the variable member.

9. The liquid delivery device according to claim 1, wherein the pressure-generating means is a
10 heater, and the flow channel branch is changed over by growth and contraction of a bubble formed by the heater.

10. A valve for changeover of flow channel
15 branches, comprising a variable member, said variable member being placed between pressure-generating means for generating a pressure provided in the flow channel such that the variable member is transformable between a first stable state and a
20 second stable state by the generated pressure.